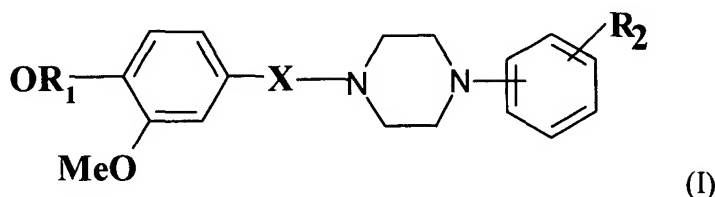
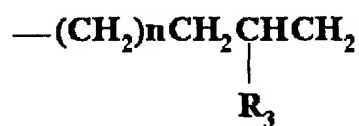


ABSTRACT

A compound having the following formula I:



where R₁ is alkyl group or alkenyl group, X represents



R₂ is selected from the group consisting of a halogen (o, m, p) group such as F, Cl, Br or I, -NH₂, -NO₂ and a hydrogen group, R₃ is a hydrogen group or OH, and n is 0 to 2. The compound has pharmacologically α₂-adrenergic/5-HT_{2A} antagonist activity, 5-HT re-uptake activity, and anti-oxidant activity. The compound is produced by preparing 4-epoxy isoeugenol, mixing piperazine dissolved in methanol with the 4-epoxy isoeugenol to reflux at 100°C for approximately 2 to approximately 6 hours, removing the methanol, passing the mixture through a silica gel column chromatography after the removing step, eluting the passed mixture with n-hexane and ethyl acetate, drying the eluted mixture, and crystallizing the dried mixture with methanol.